

## Acronyms You Might Run Across in Papers on Solar Energetic Particles

SEP = solar energetic particle

SPE = solar proton event (= large SEP event)

SCR = solar cosmic ray (= SEP)

GLE = ground level event (i.e., an SEP event that was energetic enough to be observed by ground-based neutron monitors)

CME = coronal mass ejection

IP = interplanetary

IPM = interplanetary medium

mfp = mean free path

E/M = energy per nucleon

Q/M or Q/A = charge to mass ratio

(important for rigidity =  $MV/Q = M/Q \sqrt{(2E/M)}$ )

ESP = energetic storm particle

## Instruments

Acronym	Full Name	Spacecraft	Energy Range (approx)	Measures
SIS	Solar Isotope Spectrometer	ACE	6-160 MeV/n	Ions, E, Z, M
ULEIS	Ultra Low Energy Isotope Spectrometer	ACE	0.2-6 MeV/n	Ions, E, Z, M
SEPICA	Solar Energetic Particle Ionic Charge Analyzer	ACE	0.2-5 MeV/n	Ions, E, Z, Q
ULEWAT	Ultra Low Energy Wide Angle Telescope	ISEE-3	0.5-30 MeV/n	Ions, E, Z
ULEZEQ	Ultra Low Energy Z, E, Q	ISEE-3	0.4-3 MeV/n	Ions, E, Z, Q
LEMT	Low Energy Matrix Telescope	WIND	1.4-50 MeV/n	Ions, E, Z
STEP	Supra Thermal through Energetic Particle	WIND	0.03 - 1 MeV/n	Ions, E, Z
MAST	Mass Spectrometer Telescope	SAMPEX	7-290 MeV/n	Ions, E, Z, M
LICA	Low Energy Ion Composition Analyzer	SAMPEX	0.8-3 MeV/n	Ions, E, Z, M
HILT	Heavy Ion Large Telescope	SAMPEX	4.3-90 MeV/n	Ions, E, Z